

WHAT IS CLAIMED IS:

1. A medical device, comprising:
a structure comprising a first ceramic fiber, wherein each dimension of the fiber is equal to or greater than one micron.
2. The device of claim 1, wherein the first ceramic fiber comprises a first metalloid and a second metalloid.
3. The device of claim 2, wherein the first metalloid comprises an element selected from the group consisting of silicon and boron.
4. The device of claim 2, wherein the first ceramic fiber comprises silicon borocarbonitride.
5. The device of claim 1, wherein the first ceramic fiber comprises a metalloid and a non-metallic element.
6. The device of claim 1, wherein the first ceramic fiber comprises a metallic element and a nonmetallic element.
7. The device of claim 1, wherein the first ceramic fiber is at least about five microns long.
8. The device of claim 1, wherein the first ceramic fiber is from about five microns to about 25,000 microns long.
9. The device of claim 1, wherein the first ceramic fiber is at least about five microns wide.
10. The device of claim 1, wherein the first ceramic fiber is from about five microns to about 500 microns wide.

11. The device of claim 1, wherein the first ceramic fiber extends continuously along an entire length of the device.

12. The device of claim 1, wherein the first ceramic fiber extends helically about the device.

13. The device of claim 1, further comprising a second ceramic fiber different from the first ceramic fiber.

14. The device of claim 1, wherein the structure is a tubular member.

15. The device of claim 1, in the form of a stent.

16. The device of claim 1, further comprising a polymer layer carried by the structure.

17. The device of claim 1, in the form of a graft, a medical balloon, or a catheter.

18. The device of claim 1, further comprising a therapeutic agent.

19. A medical device, comprising:
a structure comprising
a ceramic fiber; and
a non-ceramic fiber, wherein the ceramic fiber is intertwined with the non-ceramic fiber.

20. The device of claim 19, wherein each dimension of the ceramic fiber is equal to or greater than one micron.

21. The device of claim 19, wherein the non-ceramic fiber comprises stainless steel.
22. The device of claim 19, wherein the non-ceramic fiber comprises a nickel-titanium alloy.
23. The device of claim 19, wherein the ceramic fiber is knitted with the non-ceramic fiber.
24. The device of claim 19, wherein the ceramic fiber is woven with the non-ceramic fiber.
25. The device of claim 19, wherein the ceramic fiber comprises a therapeutic agent.
26. A method of making a medical device, the method comprising:
co-knitting a ceramic fiber with a non-ceramic fiber, wherein each dimension of the ceramic fiber is equal to or greater than one micron.
27. A medical device, comprising:
a structure comprising
a mixture including a polymer and ceramic fibers, each dimension of the fibers being equal to or greater than one micron.
28. The device of claim 27, wherein the ceramic fibers are at least about five microns long.
29. The device of claim 27, wherein the ceramic fibers are from about five microns to about 25,000 microns long.
30. A medical device, comprising:

a structure comprising
a first layer comprising a polymer; and
a second layer comprising a ceramic fiber.

31. The device of claim 30, wherein the first layer comprises a therapeutic agent.
32. The device of claim 30, wherein the ceramic fiber is knitted, woven, or braided.
33. A medical device, comprising:
a tubular structure; and
a polymer element on the tubular structure, wherein the polymer element comprises a ceramic fiber and each dimension of the ceramic fiber is equal to or greater than one micron.
34. The device of claim 33, in the form of a stent-graft.
35. The device of claim 33, wherein the ceramic fiber is from about ten microns to about 1,000 microns long.
36. The device of claim 33, wherein the ceramic fiber is from about ten microns to about 100 microns long.
37. The device of claim 33, wherein the ceramic fiber is from about one micron to about 50 microns wide.
38. The device of claim 33, wherein the ceramic fiber is about ten microns wide.
39. The device of claim 33, wherein the ceramic fiber has an aspect ratio of from about 5:1 to about 500:1.

40. The device of claim 33, wherein the ceramic fiber has an aspect ratio of from about 5:1 to about 200:1.

41. A stent comprising a ceramic fiber, wherein each dimension of the fiber is equal to or greater than one micron.

42. A graft comprising a ceramic fiber, wherein each dimension of the fiber is equal to or greater than one micron.

43. A stent-graft comprising a ceramic fiber, wherein each dimension of the fiber is equal to or greater than one micron.

44. A medical balloon comprising a ceramic fiber, wherein each dimension of the fiber is equal to or greater than one micron.

45. A catheter comprising a ceramic fiber, wherein each dimension of the fiber is equal to or greater than one micron.